# <u>Bio-Data</u>

1.	Name:	Dr. VM Pandharipande				
2.	Date of Birth:	28 <sup>th</sup> March, 19	28 <sup>th</sup> March, 1949			
3.	Designation:	Dr.Babasaheb	Vice-Chancellor Dr.Babasaheb Ambedkar Marathwada University Aurangabad Phone No. 0240-2403111 Email : vc@bamu.net			
4.	Qualifications:	1 10100 1,001 02	none ivo. 0240 2403111 Email . ve@bumu.net			
	Degree		Univer	rsity	Year of	award
	<b>B.E.</b>		Nagpu	r Univ.	1970	
	M.Tech.		I I T,K	haragpur	1972	
	Ph.D		IIT,K	Tharagpur	1979	
5.	Professional Experie Organisation	ence:	Desig	nation		Period
	T.I.F.R., Bombay		Scient	ific Officer		1972- 1974
	Radar & Communio Centre, IIT,Kharag			er ientific Officer Professor		1974-1979 1979-1980 1980-1983
	Osmania University	Professor & Head		1983-2009 1985-1987 1990-1991		
			Coord	man, BOS linator et IMPACT		1987-1989 1990-1991 1997-1999 1990-1991 1993-1996
	Director Curriculum Development and Accreditation Audit cell, College of Engineering, Osmnaia University		1996- 1999 2003-2005			
			Dean Faculty of Engg. ProfessorEmeritus		1999-2001 since 2009	
VNIT	Nagpur		I	Director		2002-2003
Centre for Excellence in Microwave Enginee		ering	Director		2006 -2010	
Department of Electronics & Communication Engineering Osmania University, Hyderabad					2009-2010 (Till 4/1/2011)	
Dr. Babasaheb Ambedkar Marathwada Univ Aurangabad.			versity	Vice-Chancellor		Since 5 <sup>th</sup> Jan 2011

## 6. Titles of the subjects taught:

a) At U.G. level:	Network Theory, Basic Circuit Analysis, Transmission Lines			
b) At P.G. level:	Passive Network Synthesis, Selected Topics in Microwaves,			
	Microwave Techniques, Phased Array Radar, Microwave Circuits			

## 7. Laboratory Development:

a) At U.G.level: Networks Lab, Microwave Lab, PCB Labb) At P.G.level: Microwave Research Lab

8.	List of Publications:	No.
	Papers published in National Journals	18
	Papers published in International Journals	26
	Papers published in National Conference Proceedings	62
	Papers published in International Conference Proceedings	39
	Total No. of papers published	145
	Books Published (on Literature)	16
	Technical Reports	33
	(Please see sheets attached)	
9.	M.Tech Thesis Supervised	66
	(Please see sheets attached)	
10.	Ph.D. Thesis Supervised	11
	(Please see sheets attached)	
11.	<b>Research Projects completed:</b>	12
	(Please see sheets attached)	
12.	Courses organized and coordinated:	17
	(Please see sheets attached)	
13.	Workshops and invited talks :	28
	(Please see sheets attached)	
14.	<b>Consultancy Projects completed:</b>	4

Title of the Project	Sponsoring Authority	Funds Received	Duration	Year of Completion
Wave guide slotted Array for Side Looking Radar	SAC ISRO	0.25 lakhs	1987-89	1989

#### **15.** Curriculum Development:

Chairman Board of studies	1987-90
Chairman Board of studies (Auto)- Responsible for Revision of Complete syllabus of BE ECE(Auto)	1996-99
Director, Curriculum Dev. Acc. Audit Cell – Responsible for	1996-99
Academic Audit, Accreditation process, Managerial Rep.	2003- 05
Expert Team member for Evaluation of Engineering Curriculun	1
For Defence College Ministry of National Defence, Ethiopia,	June 1997

#### 16. Member of National level Bodies/Committees:

Member Recruitment and assessment board DRDO since 1983

Member National Radar Council

Member National Board of Accreditation, AICTE, Min.of I.T.(DoE)

Member AICTE – UGC committee for Deemed University status.

Member UPSC Selection

Member 8 Projects of Rev. Committee of DRDO

Member Expert Committee, Dept. of Science and Industrial Research, (DST)

#### 17. Contribution to Human Resource Development:

Organized several Short Term Courses and Workshops (Please see sheets attached)

Extensive contribution to Continuing Engg. Education in Microwave Engg.

Teaching Learning process and Improvement of Teaching Quality

### **18.** Administration:

#### a) Contribution to College Administration:

- Chairman BOS, ECE.
- Director CDAAC.

- Member Finance Committee.
- *Library Committee.*

#### b) Contribution to University Administration:

- Dean, Faculty of Engg.
- Member Governing Body of Affiliated Colleges.
- Member Governing Body University College of Engineering, Osmania University since 1995.
- Member Academic Senate Osmania University
- Member Academic Senate Cochin Institute of Science and Technology
- Member Academic Senate VNIT Nagpur
- Member of Inspection Committees.

#### 19. Fellowship & Awards:

- 1. Distinguished Leadership Award by American International Biographical Instt., Inc., USA, 1999.
- 2. Fellow of Institution of Electronics & Telecommunication Engineers.
- 3. Fellow of AP Academic of Sciences
- 4. Life Member of Indian Society of Technical Education.
- 5. Man of the Year Award by American International Biographical Instt. Inc., USA, 1999.
- 6. Guest Editor of Special Issue on Microwave Commn. System I E T E Tech. Review.
- 7. Guest Editor of IETE Special issue of Electronics Engineering Education 2020.
- 8. Best Teacher Award from Govt. of Andhra Pradesh, 2001.
- 9. Prof. K.Sreenivasan Memorial Award of Institution of Electronics & Telecommunication Engineers, 2002.
- 10. Best Teacher Award , from Faculty of Engineering, Osmania University. 2002
- 11. Bharath Ratna Sir Vishveshvaraiah Award from Institution of Engineers and Govt. of Andhra Pradesh, Hyderabad, 2002.
- 12. 21<sup>st</sup> Century award for achievement and International Educator of the year 2007 from International Biographical Centre, Cambridge, England.
- 13. Shiksha Ratna Puraskar from India International Friendship Society, New Delhi, 2007.
- 14. Guest Editor IETE Journal of Research Special Issue on Microwave Circuit and Systems 2008.

- 15. Prof. SVC Aiya Memorial Award, IETE, New Delhi 2008
- 16. ISTE New Delhi, Anna University National Award for Outstanding Academic 2008
- 17. Inspiring Teacher Award from Teachers Academi Hyderabad Given by Alumni 1988 Batch on Teacher's Day 2009

#### 20. Major Achievements:

Successfully completed sponsored Research Projects funded by DRDO Ministry of Defence, Dept of Electronics, Govt. of India (Min. of I.T), C.S.I.R., Indian Space Research Organization, Min. of H.R.D. and A.I.C.T.E. (Total Project Cost ~100 lakhs)

Coordinated & Executed Electronics Industry Development Project IMPACT funded by World Bank, Swiss Development Cooperation (90-96) (Project cost ~ 150 lakhs.) Computer Lab., Major Communication Equipment installed & commissioned. Ours was one of the best participation institution & awarded incentive grant of 7.5 lakhs.

Was one of the core member to formulate the Draft proposal for the project NETWORK which is now funded to Dept. of ECE,OU by Swiss Development Cooperation (Project cost Rs.40 lakhs).

Organized several short Term Courses for Scientists & Engineers of Industries, R&D labs in the area of Microwave Engineering & Contributed to Human Resource Development in this field.

Organized several Object Oriented workshops for faculty members of Electronics Stream and contributed to the improvement of teaching learning process.

Produced Learning material for 2 PG courses & 2 UG courses (Specific Units).

Contributed as an expert member at state and National level: APPSC, UPSC, National Radar Council working group, National Board of Accreditation (AICTE), Dept. of Science & Ind. Research, Dept. of Tech. Education (AP) etc.

Distinguished Leadership Award (1999) from American international Biographical Instt., Inc., USA.

Established the Centre of Excellence in Microwave Engineering with funding from Astra Microwave Products Limited.

Chairman, Technical Committee International Conference on Recent Advances in Communication Engineering, December 2008, ECE, OU.

#### **RESEARCH PUBLICATIONS OF PROF. V.M. PANDHARIPANDE**

Journal Paper	rs
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#### **Conference Proceedings Papers**

Year	International	National	International	National
1974	-	1	-	-
1076				1
1976	-	-	-	1
1977	1	-	-	-
1978	1	-	-	-
1979	2	-	-	-
1980	-	-	-	1
1981	-	-	2	-
1983	2	1	-	2
1984	1	-	-	4
1985	-	2	-	3
1986	-	-	2	1
1987	1	-	-	-
1988	2	-	1	2
1989	-	2	2	2
1990	1	1	2	1
1991	1	-	1	-
1992	1	1	2	-
1993	1	-	2	2
1994	1	-	-	3
1995	-	-	-	2
1996	-	1	-	-
1997	-	1	-	-
1998	-	-	-	2
1999	-	-	-	8
2000	-	-	-	3
2001	-	1	-	1
2002	_	_	-	1
2003	3	1	4	1
2004	3	-	4	4
2005	-	2	2	6
2006	1	-		3
2007	1	_	3 5 3	-
2008	2	2	3	7
2008	_	2	1	, _
2007	- 1	-	4	- 1
2010	<b>26</b>	18	<b>3</b> 9	<b>62</b>
	20	10		02

#### **List of publications**

- 1. 'Radiation pattern of an inclined shunt slot in the narrow wall of a rectangular waveguide', IETE Jour. Vol.20, No.7, IETE pp.327-330. July 1974.
- 2. 'Coupling of Waveguides through large apertures in the common broad wall', presented at the Mid Term Symposium on Electromagnetic including Microwaves, Antennas and Wave Propagation, Calcutta Centre of IETE during April 10-11,1976.

- 3. 'Equivalent Network of a variable height post in a rectangular waveguide', Proc. IEEE , Vol.124, No.12, Dec. 1977, pp. 1160-1162.
- 4. 'Coupling of waveguides through large apertures', IEEE Trans. on Microwave Theory & Tech., Vol.MTT-26, No.3, March 1978, pp.209-212.
- 5. 'Slot Coupled Tee Junction in rectangular Guide E plane', IEEE Trans. on Microwave Theory & Tech., Vol.MTT-27, No.1, Jan. 1979, pp.209-212.
- 6. 'Equivalent Circuit of Narrow Wall Waveguide Slot Couplers', IEEE Trans.on Microwave Theory & Tech., Vol.MTT-27, Sept. 1979, pp.800-804.
- 7. 'Long Shunt Slot Waveguide Coupler', presented at the Technical Session of Advances in Microwave Circuits, Organised by IEEE India Council, Oct.30, 1980, New Delhi.
- Applications of Equivalent Circuit Approach for Waveguide Coupling Problems', International Symposium on Microwaves and Commn., IIT, Kharagpur, Dec. 29-30, 1981, pp.201-205.
- 'Analysis and Design of Millimeter Wave Edge Slot Array with optimum efficiency', International Conference on Circuits and Systems, Jadavpur University, Calcutta, India, Dec. 26-28, 1981.
- 'Triplate feed for microstrip Arrays', Proceedings of Third International Conference on Antennas and Propagation- ICAP -83, University of East Angilia, Norwich, UK, IEE Conf. Publ. No.219, Pt 1, pp.309-312.
- 'Electromagnetic Coupling between transmission lines through apertures', (Review paper) Jour. Institution of Electronics and Telecommunication Engg., India, Vol.29, No.2, Feb. 1983, Pt 1, pp.309-312.
- 12. 'Wide band micro strip patch array at X-band', 26<sup>th</sup> Technical Convention of the Institution of Electronics and Telecommunication Engineers, Feb. 12-14, 1983, Hyderabad,. Jour. IETE, Vol.29, No.10, 1983, pp.497-500.
- 13. 'The Design of Iris feed for broad band Microstrip Antenna', IETE Symposium on Microwave Communication, Calcutta Centre IETE, April 8-9, 1983.
- 14. 'Matched Directional Coupler design using filter approach', International Radar Symposium, Oct. 9-12, 1983, Bangalore, India.
- 15. 'Excitation of planar slot array from rectangular waveguide', IEE Proc. Pt II, Microwaves, Optics and Antennas, Vol.131, No.2, April 1984, pp.99-101.
- ' Inclined Slot Coupling through common broad wall between Waveguides', Proc. National Symp. on Microwave Commn. Systems, IIT, Madras, Dec. 6-7, 1984, Proc., pp.198-206.
- 17. 'Equipotential and flux lines in a symmetric rectangular coax line', Proc. Microwave Integrated Circuits, Communication and Signal Processing, Dept. of ECE, O.U., Hyderabad, Dec. 17-18, 1984, pp.B-24 B-29, Jour. IETE, Vol.32, No.1, pp.41-43.

- 'Coupling between asymmetric microstrip lines through apertures', Proc. Microwave Integrated Circuits, Communication and Signal Processing, Dept. of ECE, O.U., Hyderabad, Dec. 17-18, 1984, pp.D-1 – D-13, Jour. IETE.
- 19. 'Analysis and Design of IF Filter for Airborne receiver' ,Proc. Microwave Integrated Circuits , Communication and Signal Processing , Dept. of ECE, O.U., Hyderabad, Dec. 17-18, 1984, pp.C-28 – C-32, Jour. IETE.
- 20. 'Millimeter wave transmission media for Communication Systems', Review Paper, National Symposium on Communication Systems and Technologies of the Future, DEAL Dehradun, March 14-15,1985.
- 21. 'Time Reference Scanned Beam Array Synthesis & Design for MLS Applications', Symposium on Navigational Electronics, IETE Calcutta Centre, June 6-7, 1985.
- 22. 'Ku-Band Edge Slot Array with optimum efficiency for frequency scanning applications', Jour. IETE , July , 1985.
- 23. 'Analysis of a TEM cell, used as a probe for EMI/EMC Measurement', All India Conference on Electromagnetic Compatibility, LRDE, Bangalore, Nov. 25-26, 1985.
- 24. 'Low Loss PIN diode Phase Shifter for an Active Array Element', IETE Tech. Review Vol.2, No.11, 1985, pp.385-388.
- 25. 'Pattern shaping for MLS Antenna Arrays', paper presented at 29<sup>th</sup> Technical Convention of IETE , Feb. 15-16, 1986, New Delhi.
- 26. 'Pattern shaping with Microstrip arrays, for MLS applications', CIE, 1986, International Conference on Radar, Nov. 4-6, 1986, China.
- 27. 'Coupling between microstrip lines through long transverse slots', Microwave Technology and Applications, Proc. of 1<sup>st</sup> Asia Pacific Microwave Conference, Feb.24-28, 1986. pp.195-200.
- 28. 'Linear Model for high frequency transistors for different bias', IEEE Jour. of Solid State Circuits, Vol.SC-22, No.6 ,Dec. 1987, pp.1212-1214.
- 29. 'Extraction of GaAs FET chip Equivalent Circuit parameters from S-parameters', The second ISRAEL IEEE Symp. on Circuits, Systems and Control (ISCSE'88), May 30- June 1,1988.
- 30. 'Computer Aided Modelling of discrete high frequency transistors', IEE Proc. Pt.H MOA. Vol.135, No.3, June 88, pp.171-179.
- 31. 'Microstrip to waveguide large aperture coupler', Electronics Letters UK, Vol. 24, No. 15, July 1988, pp. 913-914.
- 'Cost Minimization of Phased Arrays using special Coupling Networks', Symposium Digest Skywave DTE Radar concepts and Techniques, LRDE, Bangalore, Oct.11-12,1988, pp.107-110.

- 'Designing MLS Arrays with specified Individual Side Lobes', National Seminar on Electromagnetics and their applications, Dec. 22-23, 1988, BHU, Varanasi, Publ. in IETE Technical Review, Vol.6, 1989, pp.471-475.
- 34. 'Analysis of characteristics of Electrically small sources inside a TEM cell with offset septum', Proc. of International Conference on Electromagnetic Interference and Compatibility, Sept. 14-16, 1989.
- 35. 'A Gaussian Antenna Correlator for Non-sinusoidal waves', Proc. of International Conference on Electromagnetic Interference and Compatibility, Sept.14-16,1989.
- 36. 'Teaching Electronics & Communication Engineering Courses at U.G. level, Need for a change', National Seminar on Electronics Education and Industrial Growth University of Roorkee, Sept.21-22,1989.
- 37. 'Shaped Beam Synthesis for a Phased Array', Electro Technology, Sept-Dec.1989, pp.81-88.
- 38. 'Franklin Type Travelling Wave Microstrip Antenna', National Conference on Electronic Circuits and Systems, University of Roorkee, Nov.2-4, 1989.
- 39. 'Design of Antenna Arrays in the nonscanned plane of azimuth and elevation antennas for MLS', National Symposium on Emerging Trends in Communication Technology, University of Jodhpur, March 16-17,1990.
- 40. 'Stripline to Microstrip line Aperture Coupler', IEEE Trans. on Microwave Theory & Tech. Vol.38, No.4, April 1990, pp.440-443.
- 41. 'Futuristic Navigational Aid , Microwave Landing System', Telematics, Vol.III, No.7, April ,1990, pp. 70-76.
- 42. 'Phased Array Synthesis using nonlinear phase distribution', RADARCON, Australia, April, 1990.
- 43. 'Nulling Techniques to Improve Shaped beams in Array Antennas', JINA, 1990. International Symposium on Antennas, France, Nov., 1990.
- 44. 'Equivalent Network for an Aperture in the centre conductor of Microstrip line', IEEE Trans. on Microwave Theory & Tech. 1991, Vol.39, No.1 ,pp.149-151.
- 45. 'An efficient Technique to Synthesize Shaped Beam Antenna Patterns', Chinese Instt. of Electronics, CIE Int. Conf. on Radar, Oct.22-24, 1991, Beijing, China.
- 46. 'Gaussian Phase Function for Phased Array Beam Shaping', IEEE Trans. A & P Symp. Digest 1992, pp.441-445.
- 47. 'A new phase distribution for beam shaping', Electro Technology Jour. of the Society of Electronic Engineers , Vol.36, No.3, Sept., 1992.

- 48. 'Multiple Beam Shaping in Array using phase only control', ASTEM-92 conference, Xian, China, Oct., 1992.
- 49. 'Millimeter Wave Twist Reflector Antenna Design Aspects', IEEE Trans. on Antennas and Propagation ,Vol.40, No.11, Nov.,1992, pp.1423-1426.
- 50. 'Design of an Efficient Monopulse Feed for Millimeter Wave Twist Reflector Scanning Antenna System', Proc. of National Symposium on Advances in Microwaves, March 1-2,1993, Univ. of Delhi, pp.49-54.
- 51. 'Cascaded Discontinuities in the centre conductor of Microstrip line', Proc. of National Symposium on Advances in Microwaves, March 1-2, 1993, Univ. of Delhi.
- 52. 'Reflected fields from twist reflector in twist reflector scanning antenna configuration', IEE, Electronics Letters, Vol.29, No.16, August 1993, pp.1397-1398.
- 53. 'Cosecant pattern of arrays by adaptive phase weights', Proc. of the 3<sup>rd</sup> Int. Symp. on Antennas and E.M. Theory Sept. 6-9, 1993, Nanjing, South east Univ., China.
- 54. 'Adaptive Beam Control on Phased Arrays by phase only technique', Proc. of the 4<sup>th</sup> Int. Symp. on Recent Advances in Microwave Technology, Dec.15-18, 1993, (ISRAMT-93) Delhi, pp. 470-473.
- 55. 'Characterization of small Apertures in the center conductor of a Microstrip line', IEEE Trans. on Microwave Theory & Tech., Vol.42, No.5, May 1994, pp.907-910.
- 56. 'Agriculture & Industrial Application of Microwaves', National Seminar on Electronics for Agriculture & Food Technology, Nov.6-7, 1994, IETE, Hyderabad.
- 57. 'Analysis of Tapered Microstrip Transmission line having a linearly varying width', National Symp. on Ant & Prop. DOE., Cochin, CUSAT 94, Nov.17-19, 1994.
- 'Transreflector Paraboloid Distortion effects in twist reflector scanning antenna system', Proc. National Symp. on Ant. & Prop., Dept. of Electronics, Cochin Univ., Nov.17-19, 1994.
- 59. 'Characterization of thin transverse slot in a Microstrip line Using Method of Moment', IETE Mid Term Symp. on Microwaves & Millimeter waves Applications & Recent Trends, April 8-9,1995, DEAL, Dehradun.
- 60. 'Design of Broadband Hybrid Ring Coupler', Proc. of National Symp. on Recent Advances in Microwaves & Lightwaves, Dec.4-6,1995, New Age Int. Pub., New Delhi, pp.382-393.
- 61. 'Transmission Matrix Analysis of Cascaded Discontinuities in the Centre Conductor of Microstrip Line', Jour. IETE, Vol.42, No.2, March-April, 1996, pp. 69-75.
- 62. 'A Millimeter Wave Monopulse Twist Reflector Scanning Antenna System, Theory and Experiment', IETE Journal of Research, Vol.43, No.6, Nov.-Dec., 1997, pp.415-421.
- 63. 'Equivalent Circuit Model for Planar Microstrip Discontinuities', National Conference on Information and Commn. Technology, J.N.Vyas Univ., Jodhpur, March, 1998.

- 64. 'Thining of Antenna Arrays', National Conference on Information and Commn. Technology, J.N. Vyas., Jodhpur, March, 1998.
- 65. 'Analysis and Design of Irisfed Microstrip Antenna', Proc. of National Conf. on Electronics, Materials, Devices and Systems (NCEMDS-99), Gulbarga Univ., Jan. 18-20,1999, pp. 347-356.
- 66. 'Agricultural and Industrial Applications of Microwaves', Proc. of NCEMDS-99, Gulbarga Univ., Jan. 18-20,1999, pp. 357-366.
- 67. 'Printed Antennas and Arrays', (Review Paper) Proc. of NCEMDS-99, Gulbarga Univ., Jan. 18-19,1999, pp.367-373.
- 68. 'A Wideband Printed Circuit Balun', co-authored with M. Chakravarthy and R. Shri Hari Rao. Proc. of NCEMDS-99, Gulbarga Univ., Jan. 18-20,1999, pp.313-322.
- 69. 'Impact of Scientific and Technological Research on Teaching and Learning Process', National Seminar on Scientific and Industrial Research in the Universities Association of Indian Universities, RRL, Bhopal, Sept. 20-21, 1999.
- 70. 'Effect of finite slot width on Impedance of Microstrip slot radiator', N.V.Koteshwara Rao and Dr. V.M.Pandharipande, Radar Symposium India-99,Dec.14-17,1999, LRDE, Bangalore.
- 'Composite Elevation Coverage of Phased Array Radar by Phase only Synthesis', A.K. Subramaniyan and Dr.V.M.Pandharipande, Radar Symposium India-99, Dec. 14-17,1999, LRDE, Bangalore.
- 72. 'Research in Engineering Education, Futuristic Need', Seminar on Supervision of Research in Universities organized by Association of Indian Universities at NIO, GOA on Aug. 17-18,2000.
- 73. 'Impedance of a displaced slot in the Ground plane of a microstrip line', N.V.Koteswara Rao and Dr.V.M.Pandharipande, Proceedings of National Symposium on Antennas and Propagation, Dec. 6-8, 2000, CUSAT, Cochin, pp.144-147.
- 74. 'Planar Tripole Adaptive Array', Proc. of National Symp. on Antennas and Propagation , Dec.6-8,2000, CUSAT, Cochin, pp.292-295.
- 75. 'Design and Performance of Miniaturized S-Band Circulator', National Symposium on Advances in Electronics ELECTRO-2001, Jan. 4-6, 2001, BHU, Varanasi.
- 76. 'Twist Reflector Evaluation using Network Analyser', IETE Tech. Rev., Special Issue on Microwave Communication Systems, Vol.18, No.2&3, March & June 2001, pp.131-138.
- 77. 'Bow Tie Microstrip Patch Antenna', Dr.V.M.Pandharipande and V.Sarala, National Symposium on Microwave Measurement Techniques and Applications, Feb.4-6, 2002, School of Envirormental Sciences, Jawaharlal Nehru University, New Delhi.
- 78. 'Real time quality analysis of Digital Remote Sensing Satellite Signals', RF Design (USA) Journal, March 2003, pp. 14-20.

- 79. 'Noise Performance Analysis of Long Loop PLL in real time measurement of Received Eb/No and carrier Recovery from PSK Modulated Signals of Remote Sensing Satellites', IETE Tech. Rev., Vol.20, No.5, Sept.-Oct. 2003, pp. 407-414.
- 'Triangular Permutation Scan Algorithm for Robot Tour Problem', Proc. of the Artificial Neural Networks in Engg. Conference (ANNIE 2003), Nov. 2-5,2003, Mussouri, USA, ASME Press N.Y., Vol.13, pp. 361-366.
- 'Continuous Measurement and Monitoring of Eb/No Ratio Received during a Remote Sensing Satellite Pass at a Multi Mission Ground Station', IEEE TENCON -2003 Conference Proc., Vol.4, Bangalore ,Oct 14-17,2003, pp. 1429-1434.
- 82. 'Analysis and Implementation of carrier Recovery Process in a Multimission Remote Sensing Satellite Ground Station', R.F. Design USA, July 2003, pp. 52-64.
- 'Real Time Measurement of Eb/No Ratio received from the Satellite: Mathematical Analysis and Practical Implementation', Journal of Space craft Technology, Vol.14, No.2, July 2004, pp. 5-17.
- 84. 'Coherent Carrier Regeneration from Digitally Modulated PSK Signals', Microwaves and RF USA, August 2004.
- 85. 'Poly semantic binary pulse compression radar sequences', IEEE TENCON 2003, IEEE Tech. Conf. on Convergent technologies for Asia Pacific.
- 86. 'Equilength poly alphabetic sequence design', International Radar Symp., IRSI 2003, Bangalore.
- 87. 'Second order problems in Poly-alphabetic Radar', Proc. IEEE ACE 2003, Conference on Emerging Technology Trends, Pune 12-13, Dec. 2003.
- 88. 'Compact Circularly Polarized Microstrip Planar Array', Proc. of National Conf. on Microwaves and Optoelectronics, Aurangabad, June 2004, pp.190-196.
- 89. 'On correction procedure for the resonant frequencies of equilateral triangle Microstrip patch antenna', Proc. of National Conf. on Microwaves & Optoelectronics, Aurangabad, June 2004, pp.185-189.
- 90. 'Microstrip Printed Patch Radiators', Proc. of National Conf. on Microwaves and Optoelectronics, Invited Talk , June 2004, pp.141-150.
- 91. 'Generalized Gray Codes', International Symposium on Intelligent Signal processing and Communication Systems, Nov. 18-19, 2004, Seoul , Korea, pp. 654-659.
- 92. 'A unique method for the real time assessment of data reception quality in a multimission Remote Sensing Satellite Ground Station', 2<sup>nd</sup> Int. Conf. on Microwaves, Antennas, Propagation and Remote sensing, Nov.23-25, 2004, Jodhpur (Selected as best paper).
- 93. 'New Figures of Merit for Poly alphabetic Radar Signal Design', Proc. Int. Conf. on Microwaves, Antennas, Propagation and Remote Sensing, Nov.23-25, 2004, Jodhpur.

- 'Graphical User Interface (GUI) Adaptive Arrays', National Symp. on Antennas and Propagation, AP SYM., Dec. 2004, Cochin Univ. of Science & Tech., Cochin, pp.284-287.
- 95. 'Design and Development of Stripline Directional Coupler for RF and Microwave Communication System', Proc. International Conference on Bio Medical Electronics & Telecommunications, Dec. 9-10, 2004, Andhra University, Vishakhapatnam.
- 96. 'Regenerate Coherent Carriers from PSK signals', Microwaves & RF Journal USA, Dec., 2004, pp. 52-68.
- 97. 'A 18 GHz Coplanar Waveguide MEMS Shunt Switch', National Symp. on Antennas and Propagation, 21-23 Dec. 2004, Cochin Univ. of Science & Tech., Cochin, pp. 243-248.
- 98. 'Gray code sequence generation as a test problem for solving TSPP instance in DNA array design', Proc. of Enabling Technologies for Smart Appliances, Jan. 2005, International IEEE Conf.
- 99. 'Teaching Learning Process in Electronics Education', IETE Tech. Rev. Special Issue, Vol.22, No.1, Jan.-Feb., 2005.
- 100. 'Monitoring of outgoing Power from Antenna by design and development of Stripline Directional Coupler', International Conf. on Antenna Technologies (ICAT-2005), Feb. 23-24, 2005, Space Application Centre, ISRO, Ahmedabad.
- 101. Anlysis and Implementation of the long loop PLL Method for Real Time Measurement of Eb/No Ratio "IETE Journal of Research Vol. 51, No.3, May June, 2005, pp. 245 256
- 102. "Design and Optimization of Phase Shifter by through sensitivity analysis" Indian Conf. of Microwave, Antenna, Propagation and Remote Sensing, 20 – 22 December, 2005, International Centre for Radio Science, Jodhpur.
- 103. "A 9 10 GHz MEMS Phase Shifter" International Radar Symposium, IRSI 2005, 19 –
   22 December, 2005, Indian Institute of Science, Bangalore
- 104. "Broadband Dual Poloarized Micro strip Antenna" Indian Conference on Microwaves, Antennas, Propagation and Remote Sensing" Centre for Radio Science, Jodhpur, December, 2005
- 105. "Analysis and Design of Equilateral Triangular Microstrip patch Antenna with Micro strip Feed" IETE Journal of Research, Vol. 52, No. 1, January – February, 2006
- 106. "Guest Editorial Special Issue on Electronics Engineering Education 2020", IETE Tech. Rev. Vol. 22, No.1, Jan Feb 2005, pp. 2-3.
- 107. "Amplitude Phase Keyed equi-length Poly Alphabetic Radar Waveform Design' International Conference on Radr Systems, 2005, Indian Institute of Science, Bangalore, December, 2005
- "Computer Aided Radome Analysis for Airborne Antenna System" National Conference on Antennas, Propagation and Remote Sensing, Jodhpur, December, 2005

- 109. "Mutual Coupling between the Micro strip slots in the Ground Plane of a Micro strip Line" "National Conference on Antennas, Propagation and Remote Sensing International Centre for 'Radio Science", Jodhpur, December, 2005
- 110. "Universal Radar Interface Design" National Conference on Antennas, Propagation and Remote Sensing, International Centre for Radio Science, Jodhpur, 20-22 December, 2005
- 111. "Dual Diversity Smart Antenna Using Maximum Bit Error rate Proceeding" TSYGECE – 06, Technical Symposium Govt. Engineering College, Aurangabad, 23-24 January, 2006
- "Studies on offset Microstrip Slot Radiator" National Conference on Communication, Control and Bio-Informatics, NCCB – 06, Govt. Engineering College, Kota Rajasthan, March 810, 2006
- 113. "Polarization Diversity Tribpole Adaptive Array with minimum bit error approach' 2<sup>nd</sup> International Workshop on Satellite and Space Communication, 14-16 September, 2006, Madrid, Spain
- 114. "A Printed Wideband Manopole antenna for Wireless Communication" 3<sup>rd</sup> International Conference on Microwave Antennas, Propagation and Remote Sensing, International Centre for Radio Science Jodhpur, 18-22 December, 2006
- 115. Studies on Reconfigurable antennas Patch Antennas with switchable slots, 3<sup>rd</sup> International Conference on Mocrowave, Antennas, Propagation and Remote Sensing, International Centre for Radio Science, Jodhpur 18-22 December, 2006
- 116. Studies on Mutual Coupling between Mocroscript Slot radiators- National Conference on Recent Advances in Microwave Techniques and Applications, University of Rajasthan, Malviya National Institute of Technology, Jaipur, October 6-8, 2006
- 117. Mutual coupling study on meander line antenna elements for use in active phased array. Microwave and optical Technology letter, Willey Periodicals Inc USA Vol 49, Issue 4, April 2007, PP 745-749
- 118. Polarization Diversity Smart Antenna with Triple COLD array using Genetic Algorithm' International Symp. on Antennas and Propagation, 20-24 August 2007, Niggata, Japan.
- 119. Genetic Algorithm assisted Dual Diversity Smart Antenna with Triple COLD array for QPSK Communication Systems' International Conference on Electromagnetic in Advanced Applications 17-21 Sept. 2007, Torino, Italy.
- 120. 'International Workshop and Satellite and Space Applications 2007, Dept. of Computer Sciences, 12/09/2007, University of Salzburg, Austria.
- 121. "Compact planar Microstrip Antenna Element for Wide-Scan Angel Active Phased Arrays" November 2007, Edinburgh, UK

- 124. Real Valued Minimum Mean Square Error Approach for Polarization Diversity Adaptive Arrays' Asia Pacific Conference on Applied Electromagnetics, 4-6 December 2007, Maleka, Malaysia.
- 122. Planar Microstrip Antenna Array for Wide-Scan Angle Active Phased Arrays", November 2008, Edinburgh, UK.
- 124. 'Polarization Sensitive Antennas for Polarization Diversity in Mobile Communication' International Conference on RF and Signal Processing Systems, IEEE Hyderabad Section, 1-2 Feb. 2008, KL College of Engineering, Guntur.
- 125. 'Cavity backed micro strip antenna element for use inactive phased arrays' International Conference on RF and Signal Processing Systems, IEEE Hyderabad Section, 1-2 Feb. 2008, KL College of Engineering, Guntur.
- 126. 'Techniques for solving EM boundary value problems critical review' International Conference on RF and Signal Processing Systems, IEEE Hyderabad Section, 1-2 Feb. 2008, KL College of Engineering, Guntur.
- 127. Wide Band Wide Beam Antenna Elements for Active Phased Array Applications", IETE Journal Special Issue on Microwave Circuits and systems, March April 2008
- 128. Design of a Corner fed square patch array antenna for X band surveillance Radar with wide bandwidth and lower side lobe. IETE Conf. on RF &Wireless(I con RFW-08) 24-26 April 08, IETE Bangalore
- 129. R.F. Couplers, Transformers, Filters and Antenna Arrays: Unique Formulation IETE Conf. on RF & Wireless (Icon RFW 08) 24<sup>th</sup> 26<sup>th</sup> April 2008, IETE Bangalore
- 130. "Resonant Microstrip Meander Line Antenna Element for wide Scan Angle Active Phased Array Antenna" Microwave and Optical Technology Letters July 2008, John Wiley Sa Sons Inc. USA (Accepted).
- 131. Microstrip Antenna Array With Embedded BITE Network", Radar 2008, Sept, 4-5., Adelaide, Australia 2008.
- 132. "Microstrip offset Slot Radiator and Series fed off set Slot Arrays" IEEE International Symp on Microwaves, 3-6 December 2008, Nimhan's Convention Centre, Bangalore.
- 133. "Wide band monopole antenna for Wireless Communication" International Conference on Recent Advances in Communication Engineering, RACE 2008, December 21-23, 2008, Dept. of ECE, College of Engineering (Autonomous) Osmania, Hyderabad.
- Mutual coupling study on Meander line Antenna elements for use in Active Phased Array. – Microwave and optical Technology letters Vol. 49, issue 4, PP 745-749. Feb. 2007
- 136. Resonant Microstrip meander line antenna element for wide scan angle active Phased array antennas – Microwave and optical tech. letters April 2008 Vol. 50, Issue 7, PP 1737 – 1740

- 137 "Survivable and protection of Multihop WDM Networks" published in the Journal of optics; August 2009
- 138 "Transmission characteristics of Linear and Non Linear Fiber Optic Communication published in the Journal of Optics August 2009
- 139 "Survivable and Protection of multihop WDM Networks against single link failure" IEEE, International Conference "WOCN 2009" in Cairo Egypt from April 28-30, 2009
- 140. "Design and Development of Pyramidal and plannar log-periodic dipole Antenna(1-2 GHZ), IEEE, International Conference at V.R. Siddartha Engineering College, Vijayawada from 6-7, 2010.
- 141. AW efficient Voice Over Internaet telephone call network model for analyzing the Dynamic behavior of the telephone calls" IEEE, International Conference at VR Siddartha Engg, College, Vijayawada from 6-7, 2010
- 142. "Multiple Beam Smart Antenna Array for mobile communication applications" IEEE, International Conference at V.R. Siddartha Engg. College, Vijayawada form 6-7, 2010.
- 143. "Design of Broadband Compact and optimally shaped Dual Ridge Horn antenna" IEEE Int. Conf. VR Sidartha College, Vijayawada from 6-7, Jan 2010
- 144. "Accurate resource frequency estimation for Equitateral Tringle Microstrip Antenna" at Indian Antenna Week organized by IEEE MTT/AP chapter, UGC-NRCPS, and university of Calcutta, held at Pune, India, 31<sup>st</sup> May – 4<sup>th</sup> June 2010.
- 145. Radar Signal Design for High Resolution Multiple/Distributed Target Detection International Journal of Engineering Science and Technology Vol. 2(8), 2010, pp 2797-3807.

These research publications are co-authored by *Prof. V.M.Pandharipande* with research scholars.

# List of books authored in Marathi Literature

## Novels:

- 1. Andharatlya Savalya
- 2. Patranjali
- 3. Ghe Bharari
- 4. Tokyo Towar Varun
- 5. Akash Majhya Muthit Aahe
- 6. Deva Shappath Khare Sangen
- 7. 1990
- 8. Sharyat
- 9. Spot Light
- 10. Navya Shatakachya Umbarathyavar
- 11. Satyamev Jayate
- 12. Spot Light
- 13. Rutu Ragini
- 14. Mantarlete Diwas

## Short Stories: Paulkhuna

## <u>Poems:</u> Muktachhanda List of Technical Report:

1. Microwave Landing System by VM Pandharipande, July 1984.

# ECE/MW/TR/1 Design and Synthesis of Time Reference Scanned Beam Arrays for MLS by VM Pandharipande, August 1985.

- ECE/MW/TR/2 3. TSRB MLS Antenna Array Synthesis and Design by VM Pandharipande, Jan 1987.
  - 4. Board Band Microstrip Antennas by R.Ramesh Babu and VM Pandharipande, May 1987.
    - ECE/MW/TR/4
  - 5. Landing Systems Comparative performance and Evaluation by VM Pandharipande, June, 1987.

ECE/MW/TR/5

6. Microstrip Fed slot Arrays for Frequency Scanning Applications by N.D.Rama Raju, R.Suresh Babu and VM Pandharipande 1987.

#### ECE/MW/TR/6

7. Microstrip Antennas for Biomedical Applications by VM Pandharipande, V.Harikrishna, K.J.Raghunath, April 1988.

#### ECE/MW/TR/7

8. Dielectric Covered Patch Antennas and Arrays by VM Pandharipande and Fatima Nahid Farokrooz, April 1988.

#### ECE/MW/TR/8

9. Waveguide Slotted Array and Microstrip Patch Array for MLS Antennas by VM Pandharipande and M.A.V. Krishna, June 1988.

#### ECE/MW/TR/9

10. The Effect of Missing Elements in TSRB-MLS Arrays by VM Pandharipande and SVN.Padmaja

#### ECE/MW/TR/10

15. Coupling Network Using Sub Array Modules for MLS Antenna Arrays by SVN Padmaja and VM Pandharipande, Jan 1989

#### ECE/MW/TR/11

16. Modified Hybrid Ring Coupler for MLS Arrays by M.V.K Prasad and VM Pandharipande, Jan 1989.

#### ECE/MW/TR/12

17. Microstrip Branch Line Coupler and Patch Antenna Array by VM Pandharipande April 1989.

#### ECE/MW/TR/13

18. MLS Scanned Arrays by K.Srinivas Rao, B.Uma Maheshwara Reddy and VM Pandharipande, May 1989.

#### ECE/MW/TR/14

 Strip/Microstrip Components & Antennas for Array Applications (Final Tech. Report) by VM Pandharipande, June 1989.

## ECE/MW/TR/15

20. Equivalent Network for an Aperture in the Centre Conductor of Microstrip Line by K.Srinivas Rao and VM Pandharipande, Nov 1989.

## ECE/MW/TR/16

21. Shaped Beam Beacon Antenna for MLS by SVN Padmaja and VM Pandharipande, Nov, 1989.

## ECE/MW/TR/17

22. Slotted Waveguide Antenna Array design Approach by VM Pandharipande, Nov 1989.

## ECE/MW/TR/18

23. Design and Tolerance Analysis of S-band Waveguide Fed Slotted Arrays by C.D.V. Subramanyam and VM Pandharipande, 1989.

## ECE/MW/TR/19

24. Method of Moment for Electromagnetic Field Problem (Tech. Review Report) by K.Srinivas Rao and VM Pandharipande, 1989.

## ECE/MW/TR/20

25. A New Synthesis Technique of Shaped Beam Antenna Pattern for MLS by B.Uma Maheshwara Reddy, K.Srinivas Rao and VM Pandharipande, March 1990

## ECE/MW/TR/21

26. Microstrip planar Array with Stripline Feed Network by K.Srinivas Rao and VM Pandharipande, Aug 1990.

## ECE/MW/TR/22

27. Waveguide Fed Aperture Coupler by VM Pandharipande, AVSRK Subramanyam and C.Ramani, Dec 1990.

## ECE/MW/TR/23

28. Analysis of Crossed and Parallel Waveguide Coupler using Method of Moments by VM Pandharipande, AVSRK Subramanyam and C.Ramani, March 1991.

## ECE/MW/TR/24

29. Printed Dipole Antenna Radiator for MLS Elevation Array by VM Pandharipande and P. Ramakrishna, July 1991.

## ECE/MW/TR/25

30. Analysis of Waveguide fed aperture Coupler at X-band (Final Tech, Report) by VM Pandharipande, C.Ramani and AVSRK. Subramanyam, August 1991.

## ECE/MW/TR/26

31. Mm Wave Twist Reflector Scanning Antenna System by VG Borkar and VM Pandharipande 1993.

## ECE/MW/TR/27

- 32. Printed antennas for Space and Airborne Applications submitted to AICTE 2002-2004
- 33. Electromagnetic Simulation, Design and Optimization of an Impulse Radiating Antenna submitted RCI, DRDO (4 Technical Reports) 2008-2009

Technical Report 1 – Technical Report 2 – Technical Report 3 – Final Technical Report –

34.	"Technical Study on Synthesis and Analysis of Active Array Antennas" LRDE, (3 Technical Reports) 2010-2012 (present running project)
	Technical Report 1- Planar Phased Array Design and Analysis For Two Radar Specifications
	Technical Report 2- Digital Beam Forming for Active Phased Array Radar
	Technical Report 3- Planar Phased Array Design and Analysis for Two Radar Specifications

## List of ME/M.TECH. Thesis Supervised:

1.	Short Slot Hybrids	VD Deshmukh	1975
2.	Design of Phased Arrays	Lt.NP Mathai	1978
3.	Mm Wave W/G Slotted Arrays & S-band Microstrip arrays for Freq.Scanning Applications.	J Vivekananda	1981
4.	Feed System & Design/Developmer of Microstrip Antenna & Arrays	nt	
	at X-band.	K.G.Verma	1982
5.	Digital PIN diode Phase Shifters	K Bharath Kumar	1983
6.	Cylindrical Array Antenna for IFF Applications	Parimal Kumar	1985
7.	Synthesis & Design of Array Antennas for MLS	Anuradha	1985
8.	Pattern Shaping in the nonscanned plane for MLS Multipath effects	B Harikumar	1986
9.	Waveguide & Microstrip Aperture Couplers	S.Umamaheshwar Reddy	1986
10.	Microstrip Arrays for Scanning Applications	N D Rama Raju	1987
11.	Coupling & Feed Networks for MLS Arrays	M Ramakanth	1988
12.	Synthesis & Design of Shaped beam Pattern Antennas	MAV Krishna	1988

13.	Circular & Rectangular Patch Antennas	HA Tafti	1988
14.	Dielectric Covered Patch Antennas & Arrays.	Fatima Nahid	1988
15.	Design & Tolerance Analysis of Waveguide fed Slotted Array Antenna	CDV Subramanian	1990
16.	Waveguide Fed Slot Couplers & Slotted Arrays for Frequency Scanned Antenna.	BN Bhandari	1990
17.	Printed Dipole Antenna Arrays	P Ramakrishna	1990
18.	Waveguide Aperture Coupler using Method of Moment.	AVSRK Subramanian	1991
19.	Planar array of Microstrip Patches in X-band	K Srinivas	1991
20.	Stripline Binary 180 Diode Phase Modulator in Ku Band	M Gangadhara	1991
21.	Dual Channel Integrated Receiver front end in X-Band	A Mangatayaru	1991
22.	Computer Aided Design of X-band 3db quadrature Hybrid coupler including junction effects.	K Gayatri	1992
23.	Direction Finding with Circular Arrays	D Sailaja	1994
24.	Yig Tuned Oscillator	Sreemala	1994
25.	Computer aided design of Microstrip Antennas & Arrays	NM Hadke	1995
26.	Development of S-Band Tuner	Gayatri	1995
27.	Design & Development of Dielectric Stabilized Voltage Controlled Oscillator in S-band	Srinivas	1995
28.	Computer Aided Design of MIC's	MA Zaki	1996
29.	Vehicle Monitoring System -Receiver Design.	M.Harnanth	1999

30.	Design and Development of Quarter wave coupled Miniaturized Circulator	T.Rajitha	2000
31.	Adaptive Array Simulation	Y.Ravinder	2000
32.	Design of Triangular Patch Antenna and Arrays	K.Ushakrishi	2001
33.	Analysis of Photonic band gap Structure in Microwstrip line using Conformal mapping	MS Balakrishan	2003
34.	Design of Wideband patch antennas	K. Shrikanth	2003
35.	Inter digital Round rod narrow band Bandpass filter	K. Ravichandra	2003
36.	4 element Microstrip linear Array	K. Rama Devi	2003
37.	Design of T/R Module	Ahmed Ali	2005
38.	Computer aided Radome Analysis And Design	M. Shwetha	2005
39.	Optical Link between ground Control station and Tracking unit Using VLSI	Kannailal Yadav	2005
40.	Analysis and Design Dual Polarized Microstrip antennas	Ch. Rajesh	2005
41.	Design and Development of Dual Polarized Dual frequency Microwstrip Antenna	T. Radhika	2006
42.	Design of Radar Simulator and Radar Interface	S. Annapurna	2006
43.	Design and Analysis of Broadband and Ultra Wide Band Microstrip Antenna	P. Naveen Kumar	2006
44.	Design Development and Fabrication Of LB and GaAsFET Power Amplif		2006
45.	Design and Development of conform Spiral Antenna	nal G.Eswaramma	2006

46.	Design of Frequency Synthesizer Module using DDS	KM Shridhar	2006
47.	Design and Development of S Band GoAsFET Low Noise Amplifier	D. Rama Krishna	2006
48.	Design and Development of Dielectric Resonator Oscillator	P. Appa Rao	2006
49.	Design Development and Fabricatic Of Microstrip L band Filter for 1 GHz clock source	on K. Mohan Rao	2007
50.	Adaptive Feed forward Linearizatio of power Amplifier	n T. Sumalatha	2007
51.	Design, Development and Fabrication Of LBand Microstrip Directional Coupler	on T. Venkata Rao	2007
52.	Design and Experimental feature OF Ka Band mm ware Transceiver	J. Sunitha Kumari	2007
53.	Design and Development of Digital	•	2007
54.	RF Analyzer for Power Measureme Simulation of Radar Instrumentation for Reflectivity Measurements of Targets in open range.		2008
55.	Design of 2-20 Hz distributed MMIC Power Amplifier	Ayesha Humera	2008
56.	Modeling of Complex Targets	V.Jyothirmayi	2008
57.	Design and Development of Multiplexer (2-20 GHz)	S.Leeladhitya	2008
58.	Design and Simulation of Ka BAND Transmitter	K.Nalini	2008
59.	Four Beam Antenna Array Fed by Butler Matrix for Mobile Communication Applications	K.Sumalatha	2008
60.	Test and Modeling of W-Band Monopulse Transceiver	N.Veerabhadrudu	2008
61.	Band Width enhancement of circular patch Antenna using Defected Ground And Defected Micro strip Structures.	S.Vinay kumar	2008

62.	Design of Analog Phase Shifter and Fem Analysis of Constituent	D.Vishal	2008
63.	Micro strip Lines Theoretical modeling and Estimation of Target Scattering Characteristics using physical optics	A.Bhargavi	2009
64.	Multiple Beam smart Antenna Array for Mobile communication Applications	K. Kumara Swamy	2009
65	Broadband Compact Dual Optimally Shaped Ridgse Horn Antenna	K. Suresh	2009
66	Design and Analysis of Phased Array for Radar Applications	R.Swetha	2010
67	Design and Development of Wide band reflector antenna	Shilpa	2010
<u>Ph.</u>	D Thesis Supervised:		
	Studies on Rectangular Coaxial Line ( (at IIT Kharagpur)	(S.Anand Mohan)	1984
	Millimeter Wave Monopulse Twist Re Antenna for Missile Seeker (V.G.Borl (at Osmania University)	-	1993
3. Characterization of Small Apertures in the Center Conductor of Microstrip Line (K.Srinivasa Rao) (at Osmania University)1995			
	Dynamic Beam Shaping in Phased Ar Phase only Control (A.K.Subramanian (at Osmania University)	2	1996
	Poly-Alphabetic Radar Signal Design (at Osmania University)	(I.A.Pasha)	2004
(	Developments of Algorithms for a Ce Combinational Optimization Problem (at Osmania University)		2004
	Data Quality Analysis of the Digitally Suppressed Carrier Signals in Real Ti- from Remote Sensing Satellites(P.K.J (at Osmania University)	me Data Reception	2005

8. Studies on Microstrip Transverse Slots and Wide Band Microstrip Patch Antennas - (N.V. Koteswara Rao)	2006
<ol> <li>Polarization Diversity Smart Antennas with Genetic Algorithm (Y. Ravinder)</li> </ol>	2008
<ol> <li>10. Studies on Active Phased Array Antenna Elements – (K.S. Beenamole)</li> </ol>	2009
<ol> <li>Analysis and Design of Broadband Microstrip Scanned Arrays (Ms. Sarala)</li> </ol>	2010

# **Research Projects**

Title of the Project		Sponsoring Authority	Funds Received	Duration	Position held
1.	Strip/Microstrip Components and Antennas for Array Applications	CSIR	5.73 lakhs	2Yrs	Chief Investigator
2.	Feed System for Slotted Array Antenna for Microwave Remote Sensing	SAC Ahem'bad	0.25 lakhs	1Yr.	Chief Investigator
3.	Feasibility studies on wave- guide Slotted Arrays	ASWAC DRDO	0.10 lakhs	1Yr.	Chief Investigator
4.	Microwaves & Signal Processing	Min. HRD New Delhi		2Yrs.	Project Director
5.	Waveguide Aperture Coupler	LRDE B'lore.	1.99 lakhs	2Yrs.	Chief Investigator
6.	MLS Antennas for Navigation	Dept. of Electronic	10.00 s lakhs	10Yrs.	Chief Investigator
7.	Computer Aided Design of Microwave Integrated Circuits.	AICTE Min.HRI	10.00 D lakhs	2Yrs.	Chief Investigator
8.	Electronics Industry Development Project-IMPACT	Dept. of Electronic World Bar Swiss Dev Co-operat	nk, velopment	5Yrs.	Coordinator

9.	Printed Antennas AICTE for Air borne & Satellite Applications	5 lakhs	2Yrs.	Chief Investigator
10.	Research & DST Training in Microwave Engg.	30 lakhs	5Yrs. (On going)	Chief Investigator
11	Compact Micro strip Astra Microv Array for Mobile Pvt. Ltd. Communications	vaves 0.5 Lakł	ns 3 Months	Chief Investigator
12.	Centre for Excellence Astra Micro In Microwave Engg.,	owaves 50 lakh per yea	5	Director
13	"Electromagnetic Simulation F Design and Optimization of an Impulse Radiating Antenna"	RCI 4.73 lak	ths 1 year	Chief Investigator
14.	"Technical Study Synthesis and Analysis of Active Array Antennas	LRDE 9.00 la	khs 2 years	Chief Investigator
	Courses Organ	nized and Coor	dinated	
	Courses Title	Period	Venue	For
1.	Intensive Course on Microwave Circuits – Analysis, Synthesis and Design.	Jan,89	Dept. of ECE	Scientists, Academicians, Engineers
2.	Short Term Course on Electronically Scanned Arrays for Radar & Communication.	Aug,89	Dept. of ECE	Scientists, Academicians, Engineers
3.	Short Term Course on Microwave	2-8 Nov.93	Dept. of ECE	Scientists,
	Techniques			Academicians,
4. 5.		6-10 June, 94 20-25 Feb.95	Research Centr IMARAT, DRI Dept of ECE	Engineers re DRDO

- 6. Executive Course on Emerging Aug 30-Trends and Techniques in 2 Sept 95. Radar Systems
- 7.Intensive Course on Antenna<br/>Theory and Techniques11-14<br/>Aug 97SAC<br/>AhemadabadISRO<br/>Scientists.

IETE CASET DRDO

Scientists

8	Intensive Course on 'Microwave Integrated Circuits'	MarApr. 2000	GAETEC RCI, Hyd.	GAETEC Scientists.
9.	Object Oriented workshop for Engg. College teachers.	May 2001	Vishweshwarayya Inst. of Engg.& Tech Mahaboobnagar.	College . Teachers
10	'Accreditation Procedure and	December 2005	Bharat Institute of Engineering & Tech. Ibrahimpatnam,Hyd	,
11.	'Teaching Learning Practice"	July 2006	University College of Engineering, Osmania University	f College Teachers
12.	Recent Trends in Microwave En	gg October 2006	Dept. of ECE,OU	College Teachers, Engineers, Scientists
13.	Phased Arrays for Radar and Satellite Applications	September 2007	International Workshop on Satellite and Space applications Selzburg, Austria	Engineers &Scientists
14.	Intensive Course on Microwave Measurements	October 2007	7 Dept. of ECE	Scientists Engineers, Teachers
15.	Intensive Course on Smart Anter	nnas August 2008	Dept. of ECE	R&D Teachers, Engineers, Scientists
16.	'Microwave Workshop'	November 18 <sup>t</sup> 2008	<ul> <li><sup>h</sup> CEME, Dept. of ECE, OU, &amp; IEEE MTT/ AP/EMC Joint Chapter Hyderaba</li> </ul>	R&D Teachers, Engineers, Scientists ad.
17. '	Defense Electronics Systems'	September 12 <sup>th</sup> 2009	CEME Dept, Dept. of ECE,OU	Teachers Students
	Works	shops/Invited Talk	<b>S</b>	
	Title	Venue	Date	No. of Man Hours

1.	Workshop on Object Oriented Planning to improve learning Environment in Electronics.	CBIT Gandipet	17.8.96.	40
2.	- do -	RVR & JC College of Engg Guntur	20.7.97	60
3.	Interactive Orientation Wokshop For Engg College (A) teachers	U.C.E (A) OU	27.9.97	80
4.	Workshop on Professionalism and Quality of Teaching learning Process.	For Engg. College Teachers of JNTU Affiliated Colleges ISTE AP Section & JNTU	21.10.98	120
5.	Interactive workshop for SWOT Analysis. Preparation of course Files, Lab. Manuals etc.	Univ. College of Engg.(A) Teachers Org. by CDAAC	24.10.98	39
6.	Workshop on Quality of Teach. Education & Teaching Methodology	Technical Teachers Training Institute Govt. of India, Min of HRD Extn Centre, Hyderabad.	27.10.98	48
7.	Workshop on Advanced commn. Systems & Applications-Lecture Title – "Modern Defence Radars & Microwave Applications"	B.N. College of Engg.PUSAD (MS)	24.12.98	100
8.	Invited Talk on 'Electronic Scanning Techniques in Defence Radar Systems' National Conference on Electronics Materials & Systems.	Gulbarga University	19.1.99	75
9.	ZOPP Workshop for Electronics Stream.	B.N.College of Engg Pusad (MS)	. 14.8.99	245
	ZOPP Workshop for Electronics Stream. Workshop for Academic	Vasavi College of Engg. UCE, OU J	25.9.99 uly 2006	160
12.	Consultants Workshop on	VBIT, Ghatkesar	Nov. 2006	300
	- <b>r</b> -	,		

"Effective Teaching Techniques"

13. Orientation Programme for Astra Engineers	Astra Microwaves 23/07/08
14. Microwave Techniques	At Aurora College 01/01/09 of Engineering Chandrayanagutta
15. Modern Defense Radar System"	National Conference 27/02/09 120 ICET 09, Madurai
16. Phased Array Antenna	PICT, PUNE 07/03/09 150
17. Refresher Course for faculty Members	Academic Staff 16/03/09 80 College, OU
18 Rain Shadow Area Division	J.N.T.U. Kukatpally 2/04/2009
19 SONNET High Frequency Electromagnetic Software	JC Lab, Dept of ECE 08/04/09 25
20 Electronically Scanned Arrays And Smart Antennas	School of EEE, NUT, Singapore 30
21 RF Circuit Design I Course	Astra Microwave Product Ltd 52
22 Planning and Organisation of Research Projects	Nalla Malla Reddy College of Engg & Tech. Uppal Road, Hyd : Dt:5/2/2010 60 (14.30 – 16.30hrs)
23 Preliminary Design Review Meeting for Project Integrated Adaptive Microwaves Antenna Array System funded by National Aer Ltd (NAL) Bangalore	At Unit III Astra Dt: 16/02/2010 onautics
2010. Dr. V.P. Kodali chaired. Various	b committee was held in CEME on 25 <sup>th</sup> March s proposals for students exhibits in the field of RF demonstration kits were discussed. Members

- 1. Wave transmission/propagation on line concept of reflection
- 2. Electronic Scanning, Beam steering concept (Radiation/Radar)
- 3. Polarization (Mobile Phone Signal)

# 25. 1. Poles and Zeros in Networks system Dept. of Avionics, , Dt: 12,13<sup>th</sup> April 240 IISCT 2010 Man hrs 60 2. Introduction to Phased Array antenna Trivandrum

For Satellite Communication

26.	Design and Development of L Band Phased Array Radar with Active T/R Module. The Project is headed by Mr. Satyanarayana, Head RF Division Various issues in Antenna Array Desig Were discussed and Solutions suggester	n
27.	Planning and Organization Research Projects	Academic Staff College, Dt:10/08/2010 72 OU Man hours
28.	"Microwaves in Electronics Warfare Systems"	Scientists of DLRL, Dt: 19 <sup>th</sup> August 39 Hyderabad2010 Man hours
29.	"HF/Microwave Circuit Design"	Amal Jyothi College of 1,2,3 Sept.30Engineering and Tech.2010ManhoursKanjarpally, Kottayam,90Kerala